

Columbia University Bulletin

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THE FACULTY OF MEDICINE

Courses in Physical Therapy and Occupational Therapy 1961-1962

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Please Address Inquiries to: Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

Telephone: WAdsworth 3-2500, Extension 7941.

Columbia University

Department of Physical Medicine and Rehabilitation

Courses in
Physical Therapy and
Occupational Therapy
1961-1962

Grayson Kirk, Ph.D., LL.D. *President of the University*

John A. Krout, Ph.D., L.H.D., LL.D. *Vice President of the University*

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Dean of the Faculty of Medicine*

Contents

COURSES IN PHYSICAL THERAPY 3

Admission Requirements and Procedure	4
Program of Study	5
Outline of the Program	9
Hospitals Affiliated for Clinical Practice	10

COURSES IN OCCUPATIONAL THERAPY 12

Admission Requirements and Procedure	13
Program of Study	15
Outline of the Program	21
Hospitals and Agencies Affiliated for Clinical Practice	22

REGISTRATION AND EXPENSES 24

OFFICERS OF INSTRUCTION 31

ACADEMIC CALENDAR 36

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Courses in Physical Therapy

CHAIRMAN OF THE DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION, AND
MEDICAL DIRECTOR OF THE COURSES IN PHYSICAL THERAPY AND OCCUPATIONAL
THERAPY: Robert C. Darling, M.D.

DIRECTOR: Mary E. Callahan, M.A.

ASSOCIATE DIRECTOR: Ruth Dickinson, M.A.

Physical therapy is treatment by the use of physical agents such as light, heat, cold, water, exercise, massage, electricity, and mechanical forces for the rehabilitation of persons with disease or injury. It also includes tests and measurements for the evaluation of physical disabilities. Its ultimate aim is the maximal rehabilitation and adjustment of the patient.

As a member of a group, working cooperatively with the physician and with persons from other medical services, the physical therapist plays an important role in helping the patient to attain the highest possible degree of physical, mental, social, and occupational independence. The therapist may work in general and special hospitals, in treatment and rehabilitation centers, schools for handicapped children, home-care programs, and in physicians' offices.

The program of study at Columbia is superimposed on a broad background of general education, including knowledge of the fundamental principles of the social, biological, and physical sciences.

The professional curriculum is designed to give the student a foundation in the basic and medical sciences which underlie the practice of physical therapy. It proceeds from there to the knowledge and skills more directly related to practice. Through this integrated, sequential course of study, the student develops an understanding of the principles, concepts, and skills which are necessary for the proper practice of the profession. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive practice in teaching hospitals under University supervision.

The Bachelor of Science degree is awarded upon completion of the full two-year program, which includes clinical experience. This program is based upon two years (sixty semester credits) of college work in the liberal arts, including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is awarded upon completion of the programs (academic and clinical) prescribed for students of advanced standing. This program is based upon the background of either a Bachelor's degree from an accredited college or university or graduation from a nationally accredited professional school of nursing.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals. Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

Many states require licensing or registration of physical therapists, for which examinations are usually held at intervals during the year. A student should become familiar with the requirements in his state so that any required examination may be taken as soon as possible after graduation. In New York State the law requires that a graduate must pass the qualifying examination, conducted by the Department of Education of the State of New York. This examination is usually held in June and December of each year. According to the law in New York State only those persons who are citizens or who have filed intentions of becoming citizens of this country may be considered for admission to the examination.

ADMISSION REQUIREMENTS

Students are admitted only in September. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second term. Students unable to swim at the time of admission are responsible for securing instruction for themselves before the second term. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following:

FOR THE DEGREE PROGRAM

The completion of at least sixty semester credits (two years) of liberal arts courses in a college approved by Columbia University. Courses must include: (a) 6 semester credits in biology; (b) 6 semester credits in physics; (c) 6 semester credits in English; and (d) 6 semester credits in psychology.* Elective courses in foreign languages, literature, humanities, social sciences, natural sciences are recommended. Students who have had a balanced education are preferred.

FOR THE CERTIFICATE PROGRAM

Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree, the undergraduate work to include: (a) 8 semester credits in biological science; (b) 6 semester credits in physics; (c) 10 semester credits in social science (of which 6 must be in psychology). *Or*:

Graduation from a nationally accredited professional school of nursing with courses carrying college credit in the biological and physical sciences. Courses in the humanities and social sciences are a desirable background.

ADMISSION PROCEDURE

Application forms may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y., and should be filed by June 1 preceding the academic year in which the student wishes to begin his studies. The completed form must be accompanied by the application fee of \$15. This fee is not returnable and is not credited toward tuition. Transcripts of all post-secondary education should be forwarded by the registrars of the respective schools direct to the Director of Courses in Physical Therapy.

A personal interview will be arranged for each applicant.

* Requirements for admission to the licensure examination for physical therapists in the state of New York include 6 semester credits in biology, 6 in chemistry, and 6 in physics. Students who plan to practice in New York State should accordingly fulfill these requirements before coming to Columbia.

Program of Study

Degree candidates take the entire program of courses listed below. Certificate candidates take only the starred courses. Both curricula are outlined on page 9.

Degree candidates should consult the bulletins of Teachers College and the School of General Studies for suitable electives.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

JUNIOR YEAR: AUTUMN TERM

*Anatomy 155. Human anatomy

Professors Elftman and Noback. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

*Kinesiology 105. Applied anatomy and kinesiology

Miss Brunnstrom and others. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy. Lectures and laboratory.

*Massage 3. Essentials of massage and techniques of relaxation

Professors Callahan and Gurewitsch, Mrs. Bartenieff, and Miss Cairns. 2 points.

The theory and technique of massage and relaxation, with demonstration and practice.

*Nursing Procedures 17. Bandaging and dressings

Miss Cairns. 1 point.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

*Orientation 39. Professional ethics and institutional organization

Professor Callahan. 1 point.

Lectures on the conduct of medical assistants which is appropriate to the routine of their work. Orientation of medical workers toward institutional contacts.

*Physiology 55 or 157. Human physiology

Professor Chien (157) and Dr. Fell (55). 2 points.

A comprehensive discussion of the major organ systems of the human body and their functions, with emphasis on the physiology of exercise. Students with a minimum background of course work in biology, chemistry, and physics register for *Physiology 55*. Those who have had a comprehensive physiology course and considerable course work in biology, chemistry, and physics register for *Physiology 157*.

Psychology 41. Child development

Dr. Bennett. 2 points.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling them.

Elective (3 points).

Chosen with the approval of the adviser.

JUNIOR YEAR: SPRING TERM

Clinical Experience 2. Introduction to clinical practice

2 points.

Orientation to institutions, physical therapy departments, and patients; to record-keeping and to giving massage and exercise.

***Exercise 112. Therapeutic exercise, including underwater techniques**

Professors Darling, Dickinson, Hoberman, and associates. 2 or 4 points.

The basic principles of therapeutic exercise, including physiology of exercise, muscle evaluation and re-education, tests and measurements, and underwater exercises. Lectures and laboratory.

***Orthopedics 136. Orthopedics**

Professor Craig. 2 points.

Lectures and clinical presentations which are descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

***Psychiatry 102. Elementary psychiatry**

Dr. O'Connor, Mr. Munz, and others. 2 or 3 points.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips. Work for the third point includes a survey of psychological tests and measurements, and the interpretation of their results for the physical and occupational therapist.

***Thermo- and hydrotherapy 10**

Professor Darling and Miss Cairns. 2 points.

The physiology of heat balance in the human body and of the effects of application of external heat or cold to the body. Theory and technique of application of heat or cold. The electromagnetic spectrum of radiant energy, especially as it applies to therapeutic heat. Theory and technique of the use of water and other liquids in therapy.

Elective (2 points).

Chosen with the approval of the adviser.

SUMMER

Degree candidates spend ten weeks (June, July, and part of September) in full-time clinical practice at one or more of the affiliated hospitals (see pages 10–11). They attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

Certificate candidates have a similar experience for four months (June, July, August, and September).

SENIOR YEAR: AUTUMN TERM

Clinical Experience 3. Supervised clinical practice

2 points.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical medicine and rehabilitation.

***Medicine and Surgery 101. General medicine and surgery**

Drs. Bhonslay and Wood. 2 points.

General Medicine (Dr. Wood): a survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General Surgery (Dr. Bhonslay): a survey of those common diseases for which there is surgical emphasis.

***Neuroanatomy 95. Anatomy of the nervous system**

Professor Sciarra. 2 points.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

Orientation 41. Seminar on social work and human behavior

Mrs. Carrick. 1 point.

Orientation to social work as related to what we learn about human behavior and its relationship to physical therapy.

Psychiatry 101. Psychosomatic aspects of physical medicine

Dr. Michels. 1 point.

A consideration of the emotional aspects of all disease.

Speech 163. Principles and practice of speech science

Dr. Eisenson. 2 points.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach to their correction.

Elective (3 points).

In English, communication skills, or public speaking and discussion.

Elective (2 points).

Chosen with the approval of the adviser.

SENIOR YEAR: SPRING TERM

***Clinical Applications 130. Survey of medical and surgical conditions in relation to physical medicine**

Professor Darling and associates. 2 points.

This course gives the student a clear acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of physical medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Clinical Experience 4. Supervised clinical experience

2 points.

Continuation of *Clinical Experience 3*.

***Electrotherapy 14. Theory and practice of electrotherapy**

Dr. Wisham. 2 points.

Theory and principles of technique of the diagnostic and therapeutic uses of high-frequency, galvanic, and other low-frequency currents.

Kinesiology 205. Advanced kinesiology

Miss Brunnstrom and others. 2 points.

Review and discussion of selected readings from the works of outstanding classical anatomists, recent electromyographic findings elucidating muscle action, studies on peripheral nerve injuries, principles of erect standing, fundamentals of locomotion, and introduction to the study of the motor behavior of patients with upper motor neuron lesions. Application to therapeutic procedures is stressed.

Open also to graduate occupational therapists, physical therapists, and physicians. See page 8.

***Neurology 106. Clinical neurology**

Dr. Gallinek. 2 points.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Orientation 16. Seminar**

Professors Callahan, Dickinson, and Schnebly. 1 or 2 points.

Lecture and discussion of topics of importance to the therapist in practice, including organization and administration of departments of physical therapy; job placement and recent developments in physical medicine. Seniors will register for 2 points, which will include a general survey of occupational therapy, with emphasis on theoretical principles as applied to major disability areas.

Physical Therapy 116. Practical application of physical therapy

Professors Callahan, Dickinson, and associates. 2 points.

Integration and application to specific cases of the fundamental principles and skills already learned.

***Rehabilitation 150. Rehabilitation techniques and problems of the handicapped**

Miss Talmud. 2 points.

Theory, practice, and evaluation of functional activities; types, application, and care of supportive apparatus. Lectures and demonstrations.

► **POSTGRADUATE COURSE IN KINESIOLOGY**

Kinesiology 205 (spring term).

Miss Brunnstrom. Saturday, 10-12. 2 points.

Registration only by permission of the instructor. Minimum class, ten; maximum class, twenty. An advanced course designed for occupational therapists, physical therapists, and physicians who are graduates of professional schools acceptable to Columbia University. Review and discussion of selected readings from the works of outstanding classical anatomists, recent electromyographic findings elucidating muscle action, studies on peripheral nerve injuries, principles of erect standing, fundamentals of locomotion, and introduction to the study of the motor behavior of patients with upper motor neuron lesions. Application to therapeutic procedures will be stressed.

Further information and application forms are available from the Office of Postgraduate Courses, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

Outline of the Program

DEGREE PROGRAM: 62 POINTS

JUNIOR YEAR: AUTUMN TERM

Anatomy 155	3
Kinesiology 105	2
Massage 3	2
Nursing Procedures 17	1
Orientation 39	1
Physiology 55 or 157	2
Psychology 41	2
Elective	3
Total points	16

SENIOR YEAR: AUTUMN TERM

Clinical Experience 3	2
Medicine and Surgery 101	2
Neuroanatomy 95	2
Orientation 41	1
Psychiatry 101	1
Speech 163	2
Electives	5
Total points	15

JUNIOR YEAR: SPRING TERM

Clinical Experience 2	2
Exercise 112	4
Orthopedics 136	2
Psychiatry 102	3
Thermo- and Hydrotherapy 10	2
Elective	2
Total points	15

SENIOR YEAR: SPRING TERM

Clinical Applications 130	2
Clinical Experience 4	2
Electrotherapy 14	2
Kinesiology 205	2
Neurology 106	2
Orientation 16	2
Physical Therapy 116	2
Rehabilitation 150	2
Total points	16

CLINICAL OBSERVATION, INSTRUCTION, AND SUPERVISED PRACTICE: in June, July, and September between the junior and senior years.

CERTIFICATE PROGRAM: 34-38 POINTS

AUTUMN TERM

Anatomy 155	3
Medicine and Surgery 101	2
Kinesiology 105	2
Massage 3	2
Neuroanatomy 95	2
Nursing Procedures 17	1
Orientation 39	1
Physiology 55 or 157	2
Elective (optional)	3
Total points	15-18

SPRING TERM

Clinical Applications 130	2
Electrotherapy 14	2
Exercise 112	4
Neurology 106	2
Orientation 16	1
Orthopedics 136	2
Psychiatry 102	2
Rehabilitation 150	2
Thermo- and Hydrotherapy 10	2
Total points	19

CLINICAL INSTRUCTION AND SUPERVISED EXPERIENCE: in June, July, August, and September following completion of the course work.

Hospitals Affiliated for Clinical Practice

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the autumn and spring terms. In addition, all students are required to spend a period during the summer in full-time clinical practice. During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, VALHALLA, N.Y.

W. H. Kelley. *Executive Director*
A. David Gurewitsch, M.D. *Medical Director*
Carroll Wardlaw. *Head Physical Therapist*

BURKE FOUNDATION CONVALESCENT HOME, WHITE PLAINS, N.Y.

George Brush. *Superintendent*
Edward J. Lorenze, M.D. *Medical Director*
Anthony De Rosa. *Chief Physical Therapist*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, NEW YORK, N.Y.

Alvin J. Binkert. *Executive Vice President and General Manager*
Robert C. Darling, M.D. *Director, Clinical Physical Medicine and Rehabilitation*
Samuel B. Feitelberg. *Chief Physical Therapist*

HARTFORD REHABILITATION CENTER, HARTFORD, CONN.

Edward Scull, M.D. *Supervising Medical Consultant*
Anne Fayan. *Supervisor, Physical Therapy, Hospital Services*
Lena Wulf. *Supervisor, Education and Physical Therapy, Home Services*

STATE OF CONNECTICUT VETERANS HOME AND HOSPITAL, ROCKY HILL, CONN.

Herman L. Kamenetz, M.D. *Chief, Physical Medicine and Rehabilitation*
Herbert Jones. *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, NEW YORK, N.Y.

John Untereker, M.D. *Director of Medical Services*
Blanche Talmud. *Supervising Therapist*

INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION, NEW YORK UNIVERSITY-BELLEVUE MEDICAL CENTER, NEW YORK, N.Y.

Howard Rusk, M.D. *Director*
Donald A. Covalt, M.D. *Clinical Director*
Jack M. Hofkosh. *Supervisor, Physical Therapy Department*

KESSLER INSTITUTE FOR REHABILITATION, WEST ORANGE, N.J.

William K. Page, Jr. *Administrator*
Henry H. Kessler, M.D. *Medical Director*
Louis Tinghino. *Director of Physical Therapy*

MIDDLESEX REHABILITATION AND POLIO HOSPITAL, NORTH BRUNSWICK, N.J.

Maurice Dorsen, Ph.D. *Administrator*
 Norman Reitman, M.D. *Chief of Medical Staff*
 Michael R. Sofranko. *Chief Physical Therapist*

NEW YORK HOSPITAL, NEW YORK, N.Y.

Kenneth Archibald, M.D. *Director of Physical Medicine*
 Margaret Valentine Rennison. *Supervisor of Physical Therapy*

NEW YORK STATE REHABILITATION HOSPITAL, WEST HAVERSTRAW, N.Y.

Seymour Bluestone, M.D. *Director*
 Morton Hoberman, M.D. *Chief, Rehabilitation Services and Research*
 Margaret A. O'Neill. *Director, Department of Physical Therapy*

P.S. #85, BRONX, N.Y.

William Benham Snow, M.D. *Medical Director*
 Jessie Armolino. *Teacher Coordinator*
 Nancy DuBois. *Clinical Coordinator*

ROOSEVELT HOSPITAL, NEW YORK, N.Y.

John Untereker, M.D. *Medical Director*
 Cora Alice Taylor. *Chief Physical Therapist*

ST. BARNABAS HOSPITAL FOR CHRONIC DISEASES, BRONX, N.Y.

A. P. Merrill, M.D., M.H.A. *Superintendent*
 Robert A. Muller, M.D. *Director, Department of Physical Medicine and Rehabilitation*
 Betty Lange. *Chief Physical Therapist*

VETERANS ADMINISTRATION HOSPITAL, BRONX, N.Y.

Abraham M. Kleinman, M.D. *Manager*
 Alfred Ebel, M.D. *Chief, Physical Medicine and Rehabilitation Service*
 Morris Vogel. *Chief of Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, BROOKLYN, N.Y.

A. W. Kruger, M.D. *Manager*
 Harry H. Samberg, M.D. *Chief, Physical Medicine and Rehabilitation*
 Theodore F. Childs. *Chief of Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, MANHATTAN, N.Y.

William J. Dann. *Manager*
 Bernard Stoll, M.D. *Chief, Physical Medicine and Rehabilitation Service*
 Aleks Tandyrak. *Chief, Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, MONTROSE, N.Y.

Leon Rackow, M.D. *Manager*
 Jack Meislin, M.D. *Chief, Physical Medicine and Rehabilitation Service*
 Henry Stano. *Chief, Physical Therapy*

VETERANS ADMINISTRATION, NEW YORK REGIONAL OFFICE, RAY CLINICS, NEW YORK, N.Y.

Irvin Tepperberg, M.D. *Chief, Physical Medicine Rehabilitation Service*
 Elmer Marjay, M.D. *Chief, Physical Medicine Group*
 G. DiNubila. *Chief Physical Therapist*

VISITING NURSE SERVICE OF NEW YORK, N.Y.

Mary McCall Tyrie. *Director of Education*
 Helen Hennessy. *Orthopedic Consultant; Supervisor of Physical Therapy*

Courses in Occupational Therapy

CHAIRMAN OF THE DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION, AND
MEDICAL DIRECTOR OF THE COURSES IN PHYSICAL AND OCCUPATIONAL THERAPY:

Robert C. Darling, M.D.

DIRECTOR: Marie Louise Franciscus, M.A.

ASSOCIATE DIRECTOR: Martha E. Schnebly, M.A.

Occupational therapy is the prescribed treatment of patients who are mentally or physically ill or disabled, by the use of activities such as the creative and manual arts, activities of daily living, and industrial and recreational skills. It has been termed "curing by doing" and plays an integral role in modern rehabilitation programs. The occupational therapist works as a member of a treatment team which includes the physician, nurse, physical therapist, social worker, psychologist, and vocational counselor. Positions are available in general and in specialized hospitals, in outpatient centers and rehabilitation centers, in special schools, and with the home-bound. The therapist works with persons of all ages and in such specialized fields as psychiatry, tuberculosis, heart disease, orthopedics, and neurology. His education is broad, since he must be able to evaluate the patient's abilities and administer treatment which is directed toward psychological adjustment, physical restoration, and prevocational goals. The therapist must be prepared to understand and interpret the physician's prescription; to understand the implications of the diagnostic condition as a medical entity and its meaning to the patient in terms of his life goals. To meet the patient's needs, he must have the knowledge to analyze a variety of activities in terms of their psychological, physical, or pre-vocational implications. He must be prepared to teach the activities at a level which will stimulate and aid each patient to work toward the highest level of adjustment in terms of specific and realistic treatment goals. He must be able to work in harmony and interdependence with other members of the institution staff and as a cooperative and loyal member of the therapeutic community. He must have the knowledge and skills necessary to carry out the organization and administration of the occupational therapy clinic.

Two programs of study are offered at Columbia, each based on a broad background of general education, as previously indicated. The first program, which leads to the degree of Bachelor of Science, consists of twenty-five months of professional education, including nine months of clinical practice in affiliated hospitals. The second, which leads to a Certificate of Proficiency, consists of seventeen months of professional education, including nine months of clinical practice. See "Admission Requirements" below.

In both programs, classroom work is devoted to instruction in the biological, social, and clinical sciences, and to the treatment activities used by the occupational therapist. A program of student clerkships in conjunction with several hospitals and institutions of the metropolitan area enables students to observe and study

treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series and in treatment-application classes. Academic education is followed by a nine-month period of supervised clinical practice in departments of teaching hospitals affiliated with the University.

The courses described in this bulletin meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the degree program and the certificate program are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in January and June of each year. Admission to the registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students are admitted only in September. Both men and women are admitted to professional courses, depending upon individual qualifications. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent. Specific requirements for admission to each of the programs are as follows:

FOR THE DEGREE PROGRAM

The applicant must have completed at least two years of work in a college approved by Columbia University. He must have earned 60 semester credits in liberal arts with a grade of C or better, including a minimum of 6 semester credits in biology (including zoology), chemistry, or physics; 6 semester credits in psychology; 3 semester credits in sociology.

As a guide to the student in planning these first two years of preparation in the liberal arts, it is suggested that he complete 6 semester credits in each of the following fields: English composition, English literature, biology (including zoology), chemistry or physics, psychology, and sociology. The remaining 24 credits might be chosen from such fields as speech, languages, the social and political sciences, and economics.

Transfer credit is usually not allowed either for courses in physical education or for any specific professional courses. A maximum of 12 credits is allowed for courses completed in music and in fine and industrial arts.

FOR THE CERTIFICATE PROGRAM

The applicant must hold a Bachelor's degree acceptable to Columbia University or, exceptionally, he must have graduated from an accredited professional school in a field closely related to occupational therapy. The work for the Bachelor's degree must include 6 semester credits in biology (including zoology), chemistry, or physics; 6 semester credits in psychology; and 3 semester credits in sociology.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Applications should be filed several months in advance of the time at which students wish to begin their studies. The completed form must be accompanied by the application fee of \$15. This fee is not returnable and is not credited toward tuition.

Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Courses in Occupational Therapy. A personal interview will be arranged for each applicant.

Program of Study

The University reserves the right to withdraw or modify the courses of instruction or to change the instructors as may be necessary.

► DEGREE PROGRAM

The degree program includes two academic years (sixteen months) of theoretical and technical study on the campus and nine months of clinical practice. The utilization of summer periods for hospital experience enables the student to complete the full program in approximately two calendar years. The clinical practice consists of full-time practical experience under the immediate direction of registered occupational therapists in psychiatric, general, pediatric, orthopedic, and tuberculosis services or hospitals. During the practice periods students also attend lectures, clinics, and staff meetings; they are introduced to related treatment departments and conduct case studies. Clinical practice must be completed within one year after the academic work is completed.

For electives, students should consult the bulletins of Teachers College and the School of General Studies.

The program is summarized in outline form on page 21.

JUNIOR YEAR: AUTUMN TERM

***O.T. 11. Orientation to occupational therapy**

Professor Franciscus and special lecturers. 1 or 2 points.

A survey of the field. The present uses, techniques, and philosophies of occupational therapy, with special reference to the roles of the therapist, to professional organizations, and to historical background and recent developments. Included is the application of occupational therapy with different age groups as well as with tuberculous and general medical and surgical patients. Supplementary reading and reports. Orientation visits to hospital services.

Psychology 41. Child development

Dr. Bennett. 2 points.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling them.

***Physiology 55 or 157. Human physiology**

Professor Chien (157) and Dr. Fell (55). 2 points.

A comprehensive discussion of the major organ systems of the human body and their functions, with emphasis on the physiology of exercise. Students with a minimum background of course work in biology, chemistry, and physics register for *Physiology 55*. Those who have had a comprehensive physiology course and considerable course work in biology, chemistry, and physics register for *Physiology 157*.

***Neuroanatomy 95. Anatomy of the nervous system**

Professor Sciarra. 2 points.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155. Human anatomy**

Professors Elftman and Noback. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

O.T. Fine Arts 11. Needlecrafts

Miss Ericson and Miss Jaffe. 2 points.

This course includes instruction in clothing construction, pattern alteration, hand and machine sewing. Also included are the various forms of embroidery, canvas stitchery, appliqué, knitting, and crocheting. Materials charge.

O.T. Fine Arts 101. Fundamentals of art and design

Mr. Lowe. 2 points.

A general survey course in the arts, which stresses the fundamentals of design as applied to crafts, commercial design, drawing, and painting. Museum and store visits. Lectures, readings, and discussions. Materials charge.

O.T. Fine Arts 163. Elementary woodwork

Mr. Lisenco. 2 points.

This course is designed to orient the student to the fundamental principles of woodworking with hand tools. Careful workmanship and strong construction are stressed. Materials charge.

TR 3300. Skills in social recreation

Professor Kraus. 2 points.

The preparation of individuals for leadership responsibility in recreational dance, singing, games, and informal dramatics, and the planning of parties and special events. For men and women directors and leaders in service clubs and canteens, community recreation programs, hospitals, industries, youth groups, and settlement houses.

JUNIOR YEAR: SPRING TERM

***O.T. 12. Application in psychiatry**

Professor Franciscus and Mrs. Fidler. 2 points.

The application of current theories and practices of occupational therapy in meeting the therapeutic needs of mentally ill patients, and for patients in any setting who have emotional or psychological problems. Treatment, activity analysis, interpersonal relationships, communication, the hospital as a social system, personnel roles, and organization for treatment are considered.

***Psychiatry 102. Elementary psychiatry**

Dr. O'Connor, Mr. Munz, and others. 2 or 3 points.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment, presented through lectures and clinical demonstrations. Work for the third point includes a survey of psychological tests and measurements, and interpretation of their results for the physical and occupational therapist.

O.T. Fine Arts 14. General crafts

Miss Ericson and Miss Jaffe. 1, 2, or 3 points.

This course includes many of the smaller crafts, such as cord knotting, chip carving, reed work, copper tooling, wood carving, fly tying, and plastic fabrication. Emphasis is placed on basic techniques and their use in occupational therapy. Museum visit. Materials charge.

***O.T. Fine Arts 26. Pottery**

Mr. Lowe. 2 points.

An introduction to the possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking, methods of decorating and glazing, and firing of kilns are studied for practical use in teaching. Materials charge.

O.T. Fine Arts 30. Elementary weaving

Miss Ericson and Miss Jaffe. 3 points.

A course in basic two- and four-harness weaving, with emphasis on the mechanics of weaving and the application to occupational therapy situations. Small-appliance weaving techniques are also covered. Materials charge.

O.T. Clerkship 2. Case evaluations of psychiatric patients

Mrs. Fidler (coordinator). 2 points.

Correlation of instruction in psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

TP 3450. Introduction to group development

Professor Herrold and others. 3 points.

Orientation to dimensions of small group development and behavior. Analysis of the functions of individual members, the group as a whole, and reviews of research related thereto. Opportunities for observation, practice, and evaluation of human relations skills in small groups in class and in work groups. A course for students with no previous study in small group behavior or in social psychology. Materials charge.

SENIOR YEAR: AUTUMN TERM

O.T. 21. Departmental administration

Professor Schnebly and special lecturers. 1 or 2 points.

Study of departmental organization and administration for the functioning of occupational therapy within a larger organizational framework. Includes basic procedures, principles, legal aspects, and general guides. Supplementary reading, term project, and reports.

***Medicine and Surgery 101. General medicine and surgery**

Drs. Wood and Bhonslay. 2 points.

General medicine (Dr. Wood): a survey of the more common diseases, with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease. *General surgery* (Dr. Bhonslay): a survey of those common diseases for which there is surgical emphasis.

***Kinesiology 105. Applied anatomy and kinesiology**

Miss Brunnstrom and others. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy. Lectures and laboratory.

Rehabilitation 115. Prevocational evaluation

Mrs. Rhodes. 1 or 2 points.

An orientation to a variety of occupational situations and to the physical, mental, and emotional demands made on the worker. Analyses are made of industrial processes and the duties of the home-maker, and consideration is given to the principles of energy conservation. The place of occupational therapy in prevocational exploration and evaluation is discussed. Films and field visits.

***O.T. Fine Arts 105 or 106. Interpretive design**

Miss Ericson. 2 points.

A course stressing the techniques of various design media as used in occupational therapy. Basic content includes block printing, stenciling, silk screening, decorative papers, and paper sculpture. This course is adaptable to the level of competence of the individual student, individual research being possible for advanced students. Materials charge. Museum visit.

O.T. Fine Arts 165. Advanced woodwork

Mr. Lisenco. 2 points.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery. Materials charge.

***O.T. Graphic Arts 1 or R1. Art of hand printing**

Professor Loos and Mr. Frey. 1 or 2 points.

The fundamentals of printing, including instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting and operation of hand and foot presses. Films, demonstrations, and field trips.

O.T. Clerkship 3. Application in special fields

Miss Ericson (coordinator). 2 points.

This course emphasizes the study of the role of occupational therapy in general medicine, surgery, and special fields, including the blind, the deaf, and the treatment aims with various age groups. Students visit a comprehensive group of hospitals, and acquire wide experience in the various situations. A weekly seminar is held to discuss and supplement the experience received during the clerkship visits.

Elective (2 points)

SENIOR YEAR: SPRING TERM

***O.T. 24. Application to orthopedic and neurological disabilities**

Professor Schnebly, Miss Wellerson, and guest instructors. 2 points.

Presentation of occupational therapy techniques based on principles of therapeutic exercises for treatment of orthopedic and neurological disabilities. Includes patient evaluation, activity analysis, current theories of practice, reports, and procedures of treatment. Lecture and laboratory.

Neurology 106. Clinical neurology

Dr. Gallinek. 2 points.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Orthopedics 136. Orthopedics

Professor Craig. 2 points.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

Exercise 112. Therapeutic exercise

Professors Darling, Dickinson, Hoberman, and associates. 2 to 4 points.

The basic principles of therapeutic exercise including the physiology of exercise, muscle evaluation and re-education, and tests and measurements. Lectures and laboratory.

***Rehabilitation 118. Agencies and personnel in rehabilitation**

Professors Schnebly (coordinator), Antell, and Clark, and special lecturers. 2 points.

Lectures concerning community resources for the physical, psychological, social, and vocational rehabilitation of the handicapped. An orientation to preventive medicine and public health problems, including communicable and contagious diseases. Legislation and organization of both public and private health agencies are studied. Included is consideration of some of the more common pathologies affecting vision and hearing, and rehabilitation techniques.

Rehabilitation 126. Activities of daily living

Miss Ericson. 2 points.

A laboratory course to acquaint the student with some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency. Consideration is given to the needs of persons with motor, sensory, and emotional handicaps, as well as energy conservation techniques for the cardiac and tuberculous. Also includes experience in making functional splints. Materials charge.

***O.T. Fine Arts 17 or 18. Leatherwork**

Miss Ericson. 1 or 2 points.

A course in hand leatherwork. Techniques of decoration and construction of small projects as used in occupational therapy. Materials charge.

***O.T. Fine Arts 168. Metalwork and jewelry**

Mr. Lisenco. 2 points.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing. Materials charge.

O.T. Clerkship 4. Physical disabilities

Miss Ericson (coordinator). 2 points.

Application of current principles and practices of therapeutic exercise as applied through occupational therapy techniques. A correlation of all previous and concurrent instruction in physical disabilities. Assigned case studies of patient application and study of allied professional fields. Weekly clinical assignments will be followed by a seminar to discuss cases and problems encountered.

► CERTIFICATE PROGRAM

The certificate program is completed in seventeen months. The eight months of theoretical and technical study consists of the *starred courses* listed under the degree program plus those given below. Clinical practice of at least nine months is the same as described for degree candidates except that in addition the certificate candidate must write a paper on an area which is of particular interest to him and which is related to clinical experiences.

The program is summarized in outline form on page 21.

ADDITIONAL AUTUMN-TERM COURSES**O.T. Fine Arts 15. General crafts and needlecrafts**

Misses Ericson and Jaffe. 1, 2, or 3 points.

The general crafts section of this course includes cord knotting, chip carving, reed work, copper tooling, fly tying, and plastic fabrication. The needlecraft section includes hand and machine sewing, embroidery, knitting, crocheting, appliqué, and rug hooking. Emphasis is placed on the application to occupational therapy situations. Materials charge.

O.T. Fine Arts 17. Leatherwork

Miss Ericson. 1 point.

For description, see listing above under spring term, senior year.

O.T. Fine Arts 35. Elementary weaving

Misses Ericson and Jaffe. 2 points.

For description, see listing above under spring term, junior year.

O.T. Fine Arts 167. Woodwork

Mr. Lisenco. 2 points.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools. Materials charge.

ADDITIONAL SPRING-TERM COURSES

O.T. 21. Departmental administration

Professor Schnebly and special lecturers. 1 point.

For description, see listing under autumn term, senior year, above.

O.T. Fine Arts 106. Interpretive design

Misses Ericson and Jaffe. 2 points.

For description, see listing under autumn term, senior year, above.

O.T. Graphic Arts R1. Art of hand printing

Professor Loos and Mr. Frey. 1 point.

For description, see listing under autumn term, senior year, above.

► **POSTGRADUATE COURSE IN KINESIOLOGY**

Kinesiology 205 (spring term).

Miss Brunnstrom. Saturday, 10–12. 2 points.

Registration only by permission of the instructor. Minimum class, ten; maximum class, twenty.

An advanced course designed for occupational therapists, physical therapists, and physicians who are graduates of professional schools acceptable to Columbia University. Review and discussion of selected readings from the works of outstanding classical anatomists, recent electromyographic findings elucidating muscle action, studies on peripheral nerve injuries, principles of erect standing, fundamentals of locomotion, and introduction to the study of the motor behavior of patients with upper motor neuron lesions. Application to therapeutic procedures will be stressed.

Further information and application forms are available from the Office of Postgraduate Courses, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

Outline of the Program

DEGREE PROGRAM: 73 POINTS

JUNIOR YEAR: AUTUMN TERM

O.T. 11: Orientation	2
Psych. 41: Child development	2
Physiology 55 or 157	2
Neuroanatomy 95	2
Anatomy 155	3
O.T.F.A. 11: Needlecrafts	2
O.T.F.A. 101: Art and design	2
O.T.F.A. 163: Woodwork	2
T.R. 3300: Recreation	2
Total points	19

JUNIOR YEAR: SPRING TERM

O.T. 12: Psychiatric application	2
Psychiatry 102	3
O.T.F.A. 14: General crafts	3
O.T.F.A. 26: Pottery	2
O.T.F.A. 30: Weaving	3
O.T. Clerkship 2: Psychiatric app.	2
T.P. 3450: Group development	3
Total points	18

CLINICAL PRACTICE:

IN PSYCHIATRY: in June, July, and August between the junior and senior years.

IN SPECIFIED FIELDS OF SERVICE: from June to January after completion of the senior year.

CERTIFICATE PROGRAM: 40 POINTS

AUTUMN TERM

O.T. 11: Orientation	1
Physiology 55 or 157	2
Neuroanatomy 95	2
Anatomy 155	3
Kinesiology 105	2
Medicine and Surgery 101	2
O.T.F.A. 15: Needlecrafts	3
O.T.F.A. 17: Leatherwork	1
O.T.F.A. 35: Weaving	2
O.T.F.A. 167: Woodwork	2
Total points	20

SPRING TERM

O.T. 12: Psychiatric application	2
O.T. 21: Departmental administration	1
O.T. 24: Physical disabilities app.	2
Psychiatry 102	2
Neurology 106	2
Orthopedics 136	2
Rehab. 118: Agencies	2
O.T.F.A. 26: Pottery	2
O.T.F.A. 106: Design	2
O.T.F.A. 168: Metalwork	2
O.T.G.A. R1: Printing	1
Total points	20

CLINICAL PRACTICE IN SPECIFIED FIELDS OF SERVICE: from July to April following completion of the course of work.

Hospitals and Agencies Affiliated for Clinical Practice

BRONX MUNICIPAL HOSPITAL CENTER, NEW YORK, N.Y.

Emanuel Lifshutz, M.D. *Medical Superintendent*
Arthur S. Abramson, M.D. *Chairman, Physical Medicine and Rehabilitation*
(Mrs.) Frances Shuff, O.T.R. *Program Coordinator and Executive Assistant*
(Mrs.) Joan Beldock, O.T.R. *Chief Occupational Therapist, G.M.S. Service*

CHILDREN'S HOSPITAL, BUFFALO, N.Y.

Moir P. Tanner. *Director*
Mitchell I. Rubin, M.D. *Chief of Pediatrics*
Jane E. Fogelsonger, O.T.R. *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, INC. FOR CEREBRAL PALSY, REISTERSTOWN, MD.

Winthrop M. Phelps, M.D. *Medical Director*
Christopher H. Wiemer. *Executive Director*
Ruth W. Brunyate, O.T.R. *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, NEW YORK, N.Y.

Alvin J. Binkert. *Executive Vice President*
Robert C. Darling, M.D. *Director, Physical Medicine and Rehabilitation*
(Mrs.) Dorothy Weiser, O.T.R. *Chief Occupational Therapist*

CONNECTICUT STATE HOSPITAL, MIDDLETOWN, CONN.

Harry S. Whiting, M.D. *Superintendent*
(Mrs.) Virginia S. Holmberg, O.T.R. *Supervisor of Occupational Therapy*

CURATIVE WORKSHOP, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA.

George M. Piersol, M.D. *Medical Director*
Clare S. Spackman, O.T.R. *Director*

DELAWARE CURATIVE WORKSHOP, INC., WILMINGTON, DEL.

Eleanor J. Bader, R.P.T. *Executive Director*
Mae D. Hightower, O.T.R. *Chief Occupational Therapist*

HARTFORD REHABILITATION CENTER, INCORPORATED, HARTFORD, CONN.

June Sokolov, O.T.R. *Executive Director*
Edward Scull, M.D. *Supervising Medical Consultant*
Clari Bare, O.T.R. *Supervisor of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, NEW YORK, N.Y.

John Untereker, M.D. *Medical Director*
Thelma L. Wellerson, O.T.R. *Director of Occupational Therapy*

INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION, NEW YORK UNIVERSITY-BELLEVUE MEDICAL CENTER, NEW YORK, N.Y.

Howard A. Rusk, M.D. *Director*
Donald A. Covalt, M.D. *Associate Director*
Paul R. Clark, O.T.R. *Chief Occupational Therapist*

MONTEFIORE HOSPITAL, NEW YORK, N.Y.

Martin Cherkasky, M.D. *Director*Lottie I. Barth, O.T.R. *Director of Occupational Therapy*

NEWINGTON HOSPITAL FOR CRIPPLED CHILDREN, NEWINGTON, CONN.

Berger E. Foss. *Executive Director*John C. Allen, M.D. *Physiatrist*Mary Fiorentino, O.T.R. *Director of Occupational Therapy*

NEW JERSEY STATE HOSPITAL, TRENTON, N.J.

Harold S. Magee, M.D. *Superintendent*Naida Ackley, O.T.R. *Director of Occupational Therapy*

NEW YORK HOSPITAL, NEW YORK, N.Y.

Main Hospital

Henry N. Pratt, M.D. *Director*Kenneth Archibald, M.D. *Director of Physical Medicine*Ann Teska, O.T.R. *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Paul H. Hoch. *Commissioner*(Mrs.) Viola R. McGrath, O.T.R. *Director of Occupational Therapy*

New York State Psychiatric Institute, New York, N.Y.

Lawrence C. Kolb, M.D. *Director*(Mrs.) Alice R. Trei, O.T.R. *Senior Occupational Therapist*(Mrs.) Gail S. Fidler, O.T.R. *Associate in Occupational Therapy, Columbia*

NEW YORK STATE REHABILITATION HOSPITAL, WEST HAVERSTRAW, N.Y.

Seymour S. Bluestone, M.D. *Director*Morton Hoberman, M.D. *Chief, Rehabilitation Services and Research*Viola W. Svensson, O.T.R. *Director of Occupational Therapy*

NORWICH STATE HOSPITAL, NORWICH, CONN.

Ronald H. Kettle, M.D. *Superintendent*Harry Kromer, R.N., O.T.R. *Supervisor of Occupational Therapy*

THE REHABILITATION CENTER OF SOUTHERN FAIRFIELD COUNTY, INC., STAMFORD, CONN.

Ruby C. Oscarson, R.P.T. *Executive Director*Charles G. McKendree, M.D. *Medical Director*Esther A. Gove, O.T.R. *Acting Director of Occupational Therapy*

U.S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D.C.

Ruth A. Robinson, Col., A.M.S.C. *Chief, Army Medical Specialist Corps*Cordelia Myers, Lt. Col., A.M.S.C. *Chief, Occupational Therapist Section, Army Medical Specialist Corps*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A.B.C. Knudson, M.D. *Director, Physical Medicine and Rehabilitation Service*George D. Frye, O.T.R. *Chief, Occupational Therapy*

Registration and Expenses

► REGISTRATION

Before attending University courses, each student must register in person during the registration period (see the Academic Calendar, on page 36). The registration procedure is as follows:

1. The student reports to the Office of Physical and Occupational Therapy on the third floor of the College of Physicians and Surgeons, 630 West 168th Street, and fills out various forms giving information required for University records.
2. He has his program approved by the Director.
3. He takes his completed forms to the Office of the Registrar and pays his fees in the Office of the Bursar.

The Office of the Registrar is open Monday through Friday, 9 a.m. to 5 p.m.

AUDITING COURSES

Degree candidates who are enrolled for 15 points or more in the current term may audit one or two courses in any division of the University without charge. Application is made at the Registrar's Office during the change-of-program period in each term: Monday, October 2, through Saturday noon, October 7, for the autumn term; Monday, February 12, through Saturday noon, February 17, for the spring term. Applications may not be filed before or after these dates.

The Registrar's Office directs students to the rosters of auditable courses in each division of the University. For obvious reasons, elementary language courses, laboratory courses, and seminars will not be open to auditors. Other courses may be closed because of space limitations. In no case will an audited course appear on the student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may

register after the stated period unless he obtains the written consent of the proper dean or director.

ATTENDANCE AND LENGTH OF RESIDENCE

No degree or certificate will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

Students are held accountable for absences incurred owing to late enrollment and are expected to attend punctually each class or laboratory exercise in each course. For credit toward the certificate or degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students whose religious duties conflict at any time with academic requirements should apply to the proper Director for an equitable solution.

A student in good standing may, for reasons of weight, be granted a leave of absence by the Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems proper. The disciplinary authority of the University is vested in the President and, subject to his reserved powers, in the dean of each faculty and the director of the work of each administrative board.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a special examination. When this mark is given at the end of the autumn term, it does not necessarily mean that the student may not pursue his courses in the spring term, but that he will get no credit for the course in question until he has received a definite passing grade.

► FEES

Tuition, the comprehensive fee, and laboratory deposits are payable each term in advance and as part of registration; the student health and hospital fee for the academic year is payable at registration in September. If these fees are paid after the last day of registration (see the Academic Calendar), they will not be reduced, and a late fee of \$6.00 will be imposed.

The following fees, prescribed by statute *for each autumn and spring term*, are subject to change at the discretion of the trustees:

Comprehensive fee for students enrolled for:

Less than 12 points	\$ 25.00
Twelve points or more	50.00

With the proviso that in no instance shall the amount of the combined comprehensive fee and tuition be less than 75.00

Registration as engaged only in research	50.00
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Tuition for all courses, per point, except where a special fee is fixed	37.00
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With the proviso that the fee for a program of 15 or more points is 550.00

Clinical supervisory fee	12.00
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Student health and hospital fee (see below)	50.00
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APPLICATION FEES AND LATE FEES

Application for admission	\$ 15.00
Application for each special examination	10.00
Renewal of application for a degree or certificate (see below)	1.00
Late registration	6.00
Late application for a special examination	5.00
Late application, or late renewal of application, for a degree or certificate	5.00

ACCEPTANCE FEE

Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and must accompany his letter with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University, and if the applicant does not register for the following academic year, it will not be returned unless the University for any reason cancels the acceptance. If he registers in the courses in physical or occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition.

WITHDRAWAL AND REBATES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Director.

The comprehensive fee, the student health and hospital fee, application fees, late fees, and special fees are not subject to rebate. If a student withdraws from the School, a partial return of the tuition may be authorized by the Registrar. When a rebate is allowed, it will be reckoned from the day upon which the Registrar receives written notice from the student.

DEPOSITS

A deposit for the use of lockers, keys, apparatus, material, and the like is required in certain courses.

STUDENT HEALTH AND HOSPITAL FEE

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. A student who already carries hospital insurance will be charged \$6.48.

A physical examination (including x-ray and tuberculin tests) will be given each student in the professional courses during the first term of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

A student who requires hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under his hospitalization insurance policy.

Daily office hours are held by the Student Health Service, Room 2-220, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

APPLICATION OR RENEWAL OF APPLICATION FOR A DEGREE OR CERTIFICATE

A candidate for a degree or certificate must file application by the date specified in the Academic Calendar. If the degree or certificate is not earned by the next regular time for the issuance of diplomas subsequent to the date of filing, the application may be renewed for a fee of \$1.00 each time that the candidate chooses to come up for consideration. Degrees and certificates are awarded three times a year—in October, February, and June.

► ESTIMATED EXPENSES

UNIVERSITY EXPENSES (TOTAL PROGRAM)	DEGREE PROGRAM	CERTIFICATE PROGRAM
Tuition	\$2,200.00	\$1,100.00
Comprehensive fee	200.00	100.00
Clinical supervisory fee	24.00	12.00
Health and hospital fee	100.00	50.00
TOTAL	\$2,524.00	\$1,262.00
LIVING EXPENSES (PER ACADEMIC YEAR)		
Room	\$350-\$535	
Board	550	
Subway and bus fares (within program)	65	
TOTAL	\$965-\$1,150	

The cost of books, materials, equipment, and uniforms varies with the program chosen. In physical therapy, degree candidates will spend, in all, about \$115; certificate candidates, about \$100. In occupational therapy, degree candidates will spend about \$240; certificate candidates, about \$200. Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice, occupational therapy students spend some four months in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer

period of time. The living expenses of physical therapy students during the summer clinical practice periods will vary depending upon the accommodations provided by the hospitals to which they are assigned.

Students who are assigned to hospitals outside the local area will need to pay nominal transportation expenses.

► HOUSING

All women students under twenty-one years of age who are not living at home or with relatives are required to secure approval of their residence from the Directors. Information concerning desirable accommodations may be obtained from the Physical and Occupational Therapy Office (see also below).

UNIVERSITY RESIDENCE HALLS

Booklets describing the University residence halls on the Morningside campus and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, N.Y., or (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. Rates for the academic year are \$250 to \$475 for men and \$350 to \$535 for women. Optional prepaid board plans are available in the men's residence halls. In Johnson Hall, the residents are required to take breakfast and dinner there at a cost of \$400 for the academic year.

In Woodbridge Hall, at 431 Riverside Drive, are one-bedroom, furnished apartments, which are rented for a twelve-month period to married graduate students. The rates range from \$1,260 to \$1,620 a year, including utilities. For further information and application forms write the Residence Halls Office, 125 Livingston Hall.

OFF-CAMPUS HOUSING

Students who wish to live off campus should write or call at the Registry of Off-Campus Accommodations, 115 Livingston Hall, Columbia University, New York 27, for an information sheet which describes the services rendered by the Registry.

International House, a privately owned student residence near the Morningside campus, has rooms for about five hundred graduate students, both foreign and American. Rates for the academic year are \$355 to \$580. To be eligible for admission a student must be at least twenty-one years old and must be registered for a minimum of twelve points or for a program of full-time research. Address the Committee on Admissions, International House, 500 Riverside Drive, New York 27.

The King's Crown Hotel, 420 West 116th Street, near the campus, is owned by the University. It provides accommodations at reasonable rates for relatives and guests of members of the University.

► LOANS TO STUDENTS

Long-term loans at low interest rates are available from the University for tuition and fees, and under certain circumstances, for living expenses. Returning students

should apply well in advance of September 1, for the autumn term, and of December 15, for the spring term. New students should apply before the registration period. Applications should be filed with the Director of the program in which the student is enrolled.

Many states (among them Maine, Massachusetts, New Jersey, New York, and Vermont) have loan funds available to their residents who are United States citizens, and federal loan funds are available to full-time students under the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958).

Deferred payment of all charges payable to the University may be arranged through the Midland Time Plan for Education, sponsored by the Marine Midland Trust Company of New York. This plan permits a student to budget all or part of his tuition and dormitory fees over an eight-month period, paying a portion of the cost on the first of each month. The interest charge is $2\frac{3}{4}$ per cent of the total amount to be budgeted.

For further information on loans and deferred payment, consult either the appropriate Director or the Office of Financial Aid, 322 University Hall.

► EMPLOYMENT

A student who needs to earn part of his expenses by working part time during the academic year should get in touch with the Student Employment Office, 425 West 117th Street. In order to help him, the Office requires that he file a short registration card and be interviewed by a staff member. Since employers must know when a student is free to work, *little assistance can be given any student until his class schedule is known*. The Office advises most full-time students to limit their part-time work to fifteen or, at the most, twenty hours a week.

The Employment Office places students as tutors, translators, clerks, salesmen, waiters, technical workers, secretaries, typists, and the like. Average rates of pay for unskilled work are \$1.20 per hour for campus jobs and \$1.25 per hour for off-campus jobs. Higher rates are paid students with specialized training.

Men students are eligible for work-for-meals jobs in the University dining halls and in the Men's Faculty Club (two hours of work a day in return for three meals). Applications must be filed with the Office by August 1.

Students who wish to work part time in the University Libraries should apply direct to the Library Personnel Office, 309 Butler Library. The usual work schedule is twenty hours a week, with preference given to students who can work regularly all mornings, all afternoons, or all evenings. The rate of pay for jobs that require no typing is \$1.25 per hour; for skilled typists the rate is \$1.40 per hour.

Wives of students may also register with the Office for part-time work. They are also eligible to apply for part-time work in the Libraries. Those who are interested in full-time jobs on the campus should apply at the University Personnel Office, Wing C, University Hall Annex; most of these jobs require typing and many require shorthand as well. Full-time employees are eligible for 6 points of tuition exemption in each term, primarily in evening classes in the School of General Studies.

Students who wish to work full time during the summer vacation should register with the Student Employment Office early in the spring term.

The Physical and Occupational Therapy Office maintains a listing of positions

throughout the country that are available to graduate therapists. Current graduates and alumni are encouraged to refer to the Office for these positions.

► THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled at 400 First Avenue, in cooperation with Columbia University, offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. There is an outstanding collection of reference books, periodicals, and pamphlets, concerning the handicapped, their problems, and their rehabilitation, which students may use. An occupational therapy teaching unit is used for instruction and contains a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage and exercise is provided.

► STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations in which recreational, social, and professional activities are carried on. Within these clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

Physical and occupational therapy students are eligible to make use of the facilities of the main campus at Broadway and 116th Street as well as those of the Medical Center. *The Student Handbook*, which is distributed from the school office at registration, gives complete details about the libraries, sports, religious activities, social life on the campus, and the resources of New York City that students may enjoy at little expense.

Graduates of the physical and occupational therapy programs may have membership in the Alumni Federation of Columbia University.

Officers of Instruction

Michael Antell. *Adjunct Assistant Professor of Public Health Practice*

M.D., Long Island College of Medicine; M.P.H., Harvard

Gustav J. Beck. *Instructor in Medicine*

B.S., Columbia; M.D., New York University

Stephen Bennett. *Instructor in Psychiatry*

B.S., Queens; M.D., Cornell

Shivaji B. Bhonslay. *Instructor in Surgery*

M.D., American University, Beirut

Signe Brunnstrom. *Instructor in Physical Therapy*

B.S., Uppsala College, Sweden; M.A., New York University; Physical Therapy, Royal Gymnastic Central Institute, Sweden

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Shu Chien. *Assistant Professor of Physiology*

M.B., National Taiwan; Ph.D., Columbia

Graham Clark. *Assistant Professor of Clinical Ophthalmology*

B.S., M.D., Virginia

Frederick S. Craig. *Assistant Professor of Clinical Orthopedic Surgery*

M.D., Buffalo

George F. Crickelair. *Associate Professor of Clinical Surgery*

A.B., M.D., Wisconsin

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Edward J. Frey. *Lecturer in Graphic Arts (General Studies)*

Alfred Gallinek. *Associate in Neurology*
M.D., Berlin

A. David Gurewitsch. *Associate Clinical Professor of Rehabilitation Medicine*
M.D., Basel

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Paul Lindenberg. *Instructor in Otolaryngology*
M.D., Vienna

Yasha Lisenco. *Instructor in Fine and Industrial Arts (Teachers College)*
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John A. Wood. *Instructor in Medicine*

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Shyh-Jong Yue. *Assistant Professor of Physical Medicine and Rehabilitation*

M.D., National College of Medicine, Shanghai

SPECIAL LECTURERS

Marguerite Abbott, O.T.R.

B.S., Tufts; M.A., Columbia; Graduate, Boston School of Occupational Therapy

Mercedes Abella, O.T.R. *Director of Occupational Therapy, Long Island Rehabilitation Center for Blind Persons*

B.S., Certificate in Occupational Therapy, New York University

Arthur Abramson. *Chairman, Department of Rehabilitation Medicine, Albert Einstein College of Medicine*

B.S., M.D., C.M., McGill

Sophia R. Ackerman, O.T.R. *Chief, Occupational Therapy, New York Veterans Administration Hospital*

B.S., Certificate in Occupational Therapy, New York University; M.A., Columbia

Olav Austlid. *Associate Director, Physical Medicine, Hospital for Special Surgery*

M.D., Vienna

Irma Bartenieff. *Research Assistant to Dr. Gurewitsch*

Certificate in Physical Therapy, New York University

Lottie I. Barth, O.T.R. *Director of Occupational Therapy, Montefiore Hospital*

B.S., Certificate in Occupational Therapy, New York University

Joan Beldock, O.T.R. *Chief Occupational Therapist, Abraham Jacobi Hospital*

B.S., in Occupational Therapy, Tufts University

Edith H. Brokaw, O.T.R. *Consultant in Occupational Therapy*

Graduate, Philadelphia School of Occupational Therapy

Elizabeth M. Carrick. *Instructor, New York School of Social Work*

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Marjorie Fish, O.T.R. *Executive Director, American Occupational Therapy Association*

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Willis C. Gorthy. *Director, Institute for the Crippled and Disabled*

C.E., Cornell

- Margery Gross. *Chief, Cerebral Palsy Clinic, Institute for the Crippled and Disabled*
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- Edward F. Hartung. *Assistant Clinical Professor of Medicine, New York University Post-Graduate Medical School*
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Graduate, Yale School of Nursing; B.S., Columbia; Certificate in Physical Therapy, Hospital for the Ruptured and Crippled
- Shulamith Kastein. *Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center*
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B.S., Ohio State
- Janet Pinner. *Director of Selective Placement Service, New York State Employment Service*
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Certificate in Occupational Therapy, Boston School of Occupational Therapy
- Charlotte Rhodes. *Assistant in Physical Medicine and Rehabilitation, Presbyterian Hospital.*
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Donald Wilson. *Secretary-General, International Society for the Rehabilitation of the Disabled*

A.B., Muskingum; LL.B., Western Reserve; M.A., Chicago

Academic Calendar, 1961-1962

AUTUMN TERM

- Sept 26-27 Tuesday-Wednesday. Registration, including payment of fees.*
28 Thursday. Classes begin.
- Oct 7 Saturday until noon. Last day for making changes in programs.
25 Wednesday. Award of October degrees and certificates.
- Nov 7 Tuesday. Election Day. Holiday.
23-26 Thursday-Sunday. Thanksgiving Holidays.
- Dec 1 Friday. Last day for filing application or renewal of application for degrees and certificates to be awarded in February.†
24 Sunday, through January 7, 1962, Sunday. Christmas Holidays.
- Jan 22 Monday, through February 1, Thursday. Midyear examinations.
- Feb 2 Thursday. Term ends.

SPRING TERM

- Feb 5-6 Monday-Tuesday. Registration, including payment of fees.*
7 Wednesday. Classes begin.
17 Saturday until noon. Last day for making changes in programs.
28 Wednesday. Award of February degrees and certificates.
- Mar 1 Tuesday. Last day for filing application or renewal of application for degrees and certificates to be awarded in June (see May 1 entry below).†
- Apr 1-8 Sunday-Sunday. Spring Holidays.
- May 1 Tuesday. Last day for filing late applications for June degrees.
21-31 Monday-Thursday. Final examinations.
30 Wednesday. A University holiday except for scheduled examinations.
31 Thursday. Term ends.

COMMENCEMENT

- June 3 Sunday. Baccalaureate Service.
5 Tuesday. Conferring of degrees and certificates.
- Aug. 1 Wednesday. Last day for filing application or renewal of application for degrees and certificates to be awarded in October.†

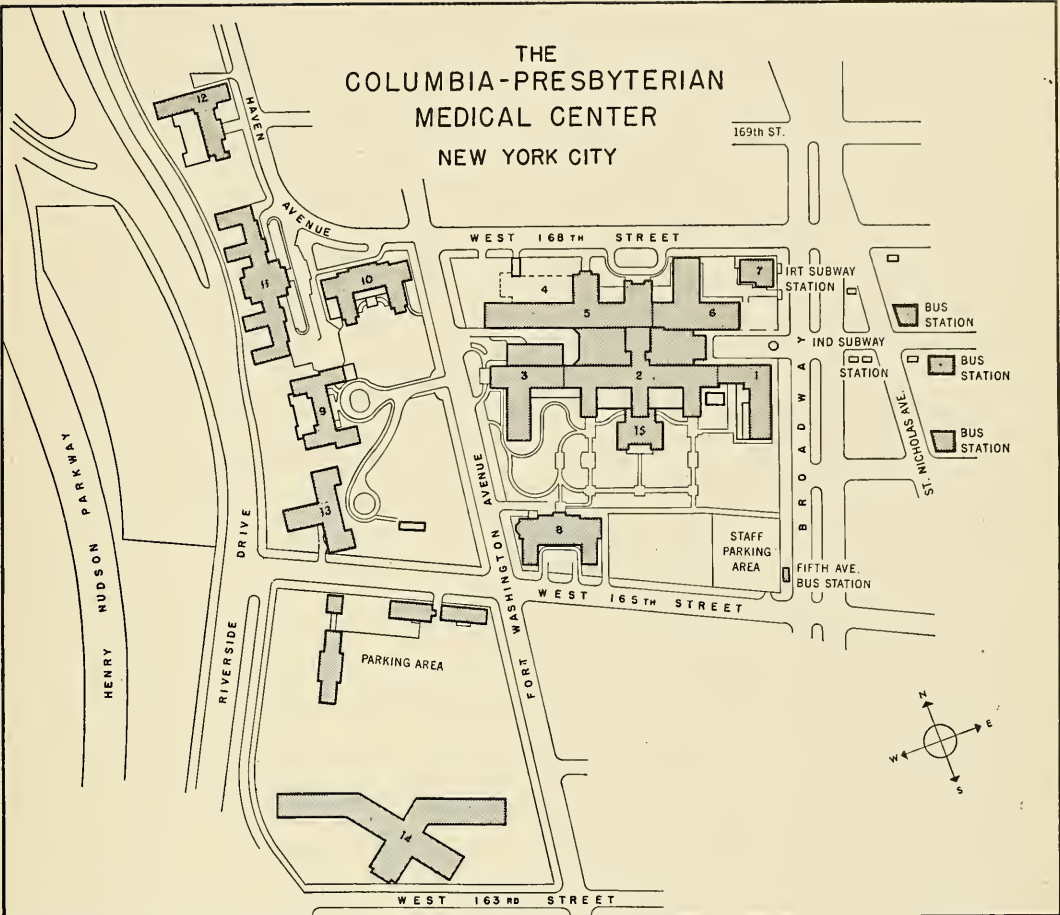
* Students allowed to register after the period specified must pay a late fee.

† Students who file application after this date must pay a late fee.



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THE
COLUMBIA-PRESBYTERIAN
MEDICAL CENTER
NEW YORK CITY



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| 1. BABIES HOSPITAL | 7. N.Y. CITY DEPT. OF HEALTH |
| 2. PRESBYTERIAN HOSPITAL | SCHOOL OF PUBLIC HEALTH AND |
| N.Y. ORTHOPAEDIC HOSPITAL | ADMINISTRATIVE MEDICINE |
| SLOANE HOSPITAL | 8. INSTITUTE OF OPHTHALMOLOGY |
| SQUIER UROLOGICAL CLINIC | 9. MAXWELL HALL |
| 3. HARKNESS PAVILION | 10. NEUROLOGICAL INSTITUTE |
| 4. POWER HOUSE | 11. N.Y. STATE PSYCHIATRIC INSTITUTE |
| 5. COLLEGE OF PHYSICIANS | 12. BARD HALL |
| AND SURGEONS | 13. HARKNESS MEMORIAL HALL |
| 6. VANDERBILT CLINIC | 14. FRANCIS DELAFIELD HOSPITAL, N.Y.C. |
| SCHOOL OF DENTAL AND | 15. PAULINE A. HARTFORD |
| ORAL SURGERY | MEMORIAL CHAPEL |

To Reach the Medical Center: By subway, the Washington Heights Express of the IND Eighth Avenue or the Van Cortland Park train of the IRT Seventh Avenue. By bus, Fifth Avenue Bus #4 or #5. By car, the Westside Highway exit at the George Washington Bridge. Parking facilities are available at West 164th Street and Fort Washington Avenue.

